

GGGGGGGG GG GG GG GG GG GG GG GG GG GG	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE			MM MM MMM MMM MMMM MMMM MMMM MM MM MM MM
		\$		

IN VO

**

MODULE GETTIM (
LANGUAGE (BLISS32),
IDENT = 'V04-000'
) =

BEGIN

0050 1

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FACILITY: F11ACP Structure Level 1

ABSTRACT:

This routine builds a date/time string in the format for file headers in the indicated buffer.

ENVIRONMENT:

STARLET operating system, including privileged system services and internal exec routines.

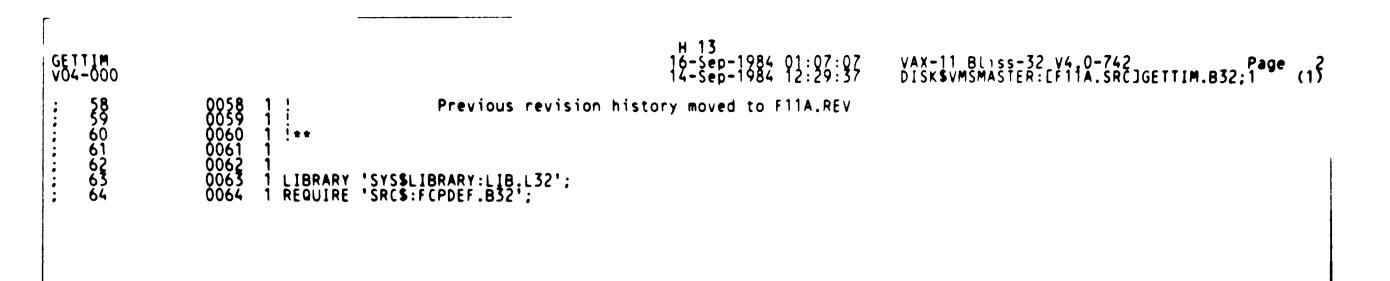
AUTHOR: Andrew C. Goldstein, CREATION DATE: 2-May-1977 16:07

MODIFIED BY:

V02-001 MLJ0029 Martin L. Jack, 11-Jul-1981 23:49 Clean up quadword to file header format time conversion so that if a zero quadword is supplied, the result is binary zeros, which signifies an unspecified time, rather than "17NOV58".

A0100 ACG0001

Andrew C. Goldstein, 10-0ct-1978 20:01



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NO .....
```

```
16-Sep-1984 01:07:07
14-Sep-1984 12:29:37
GETTIM
                                                                                                                  VAX-11 Bliss-32 V4.0-742 PRIDISK$VMSMASTER:[F11A.SRC]GETTIM.B32;1
V04-000
    66
67
                               GLOBAL ROUTINE GET_TIME (BUFFER, TIME) : NOVALUE =
                    0380
     68
                    0381
                               !++
     69
                    0383
0384
0386
0386
0388
0388
0390
0391
    FUNCTIONAL DESCRIPTION:
                                         This routine builds a date/time string in the format for file headers in the indicated buffer. If a time is supplied, it is used; if not,
                                         the current time is used.
                                 CALLING SEQUENCE:
                                         GET_TIME (ARG1, ARG2)
    78
79
                    0392
0393
                                  INPUT PARAMETERS:
     80
                                         NONE
                    0394
0395
     81
     82
                                  IMPLICIT INPUTS:
     83
                    0396
                                         system time of day
     84
                    0397
     85
                    0398
                                 OUTPUT PARAMETERS:
                    0399
     86
                                         ARG1: address of buffer to receive date/time string
     87
                    0400
                                         ARG2: optional 64 bit date/time to convert
                    0401
     88
                    0402
     89
                                 IMPLICIT OUTPUTS:
     90
                                         NONE
                    0404
     91
    92
93
                                 ROUTINE VALUE:
                    0406
0407
                                         NONE
    94
95
                    0408
                                 SIDE EFFECTS:
    96
97
                    0409
                                         NONE
                    0410
    98
99
                    0411
                    0412
   100
                              BEGIN
                    0414
   101
   102
                              LITERAL
                                                                                   ! entries in the numeric date/time buffer
                    0416
0417
   103
                                         YEAR
                                                              = 0.
   104
                                         MONTH
                                                              = 1,
                                                              = 2.
= 3.
                    0418
0419
   105
                                         DAY
   106
                                         HOUR
   107
                    0420
0421
0423
0423
0424
0425
0426
0427
0428
0429
                                         MINUTE
                                                              = 4.
   108
                                                              = 5:
                                         SECOND
   109
                            2 MAP
   110
                                         BUFFER
   111
                                                              : REF VECTOR [,BYTE]; ! date/time buffer arg
   112
   113
                               LOCAL
                                         TIMEADDR
   114
                                                              : REF VECTOR,
                                                                                      address of 64 bit date/time
                                                                                      dummy to receive string length
   115
                                         DUMMY.
                                                              : VECTOR [7, WORD], ! buffer to receive numeric format time : VECTOR [2]; ! descriptor to pass buffer to FAO
                                         TIMBUF
   116
   117
                                         BUF_DESCRIPT
   118
   119
                               BIND
   120
                                                                                    ! month name table
   121
                                         MONTH_TABLE
                                                              = UPLIT BYTE
                                                               ('JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ')
```

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IN
VO
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```
J 13
                                                                                                                                                                                                     16-Sep-1984 01:07:07
14-Sep-1984 12:29:37
GETTIM
                                                                                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Partimental Parti
V04-000
        12345678901233456789
1331333456789
                                                                                                                                                     : VECTOR.
                                                                                                                                                   ! FAO format string
= DESCRIPTOR ('!2ZW!AD!4(2ZW)');
                                                                                                  FORMAT
                                                                          EXTERNAL ROUTINE
                                                 0441
                                                                                                  SYSSNUMTIM
                                                                                                                                                    : ADDRESSING_MODE (ABSOLUTE),
                                                                                                                                                                                                           system time in numeric format
                                                                                                  SYS$FAO
                                                                                                                                                     : ADDRESSING_MODE (ABSOLUTE);
                                                                                                                                                                                                          formatted ASCII output
                                                                               Execution of this routine simply involves getting the current date and time in numeric format from the system, and then calling FAO to build the ASCII date/time string in the buffer. The string is of the form 'DDMMMYYHHMMSS'.
                                                 0459
0450
0451
0452
0453
0454
                                                                          BUF_DESCRIPT[0] = FI1$S_CREDATE + FI1$S_CRETIME;
        140
                                                                          BUF DESCRIPT[1] = .BUFFER:
        141
        142
                                                                          TIMEADDR = 0:
                                                 0455
0457
0458
0459
                                                                         IF ACTUAL COUNT GEQ 2
        144
                                                                          THEN
       1467
1448
1490
1512
1534
1567
159
                                                                                      TIMEADDR = .TIME;
                                                 0460
                                                0461
                                                                                          If the input time is zero, return binary zeros in the output buffer,
                                                 0462
                                                                                            which is the ODS-1 representation for an unspecified time.
                                                0464
                                                                                      IF .TIMEADDR[0] EQL 0 AND .TIMEADDR[1] EQL 0
                                                 0465
                                                                                      THEN
                                                                                                  BEGIN
                                                0467
                                                                                                  CH$FILL(0, FI1$S_CREDATE + FI1$S_CRETIME, .BUFFER);
                                                0468
                                                                                                  RETURN:
                                                0469
0470
                                                                                                  END:
                                                                                      END:
                                                 0471
                                                 0472
0473
0474
                                                                          SYS$NUMTIM (TIMBUF, .TIMEADDR);
        160
                                                                        SYS$FAO (FORMAT, DUMMY, BUF_DESCRIPT, .TIMBUF[DAY], 3, MONTH_TABLE[.TIMBUF[MONTH]-1],
        161
        162
                                                 0475
                                                 0476
                                                                                                   .TIMBUF[TEAR] MOD 100,
.TIMBUF[HOUR],
                                                 0477
        164
                                                 0478
        165
                                                 0479
                                                                                                   .TIMBUF[MINUTE]
.TIMBUF[SECOND]
        166
                                                                  2
2
1 END;
        167
                                                 0480
                                                 0481
        168
                                                                                                  ):
                                                 0482
0483
        169
       170
                                                                                                                                                                                                     ! end of routine GET_TIME
                                                                                                                                                                                                                                     .TITLE
                                                                                                                                                                                                                                                            GETTIM
                                                                                                                                                                                                                                                            \\04-000\
                                                                                                                                                                                                                                     . IDENT
                                                                                                                                                                                                                                     .PSECT $CODE$,NOWRT.2
                                  20 52 41 4D 20 42 45 46
4C 55 4A 20 4E 55 4A 20
                                                                                                                                                                                        00000 P.AAA:
                                                                                                                                                                                                                                   .ASCII \JAN FEB MAR APR MAY JUN JUL AUG SEP OCT \
                                                                                                                                                                                         0000F
```

GETTIM V04-000														1	(13 5-Sep-19 4-Sep-19	84 01:07 84 12:29	:07 VAX-11	Bliss-32 V4.0-742 VMSMASTER:[F11A.SRC]GETTI	Page 5 M.B32;1 (2)
29	57	5A	32	28	54 34	43 20 21	4F 43 44	20 45 41	50 44 21	45 20 57	53 56 5A	20 4F 32 00000	47 4E 21 0E	0001E 00028 00030 0003E 00040 00044	P.AAC: P.AAB:	.ASCII .ASCII .BLKB .LONG .ADDRES	\NOV DEC \ \!2ZW!AD!4(2 2 14 S P.AAC	2ZW)\	
															MONTH T FORMAT=	ABLE= .EXTRN	P.AAA P.AAB SYS\$NUMTIM,	SYS\$FAO	l
							0	4 8	5E AE AE 02 56		04 08 04	10DC6 50C5 15C60D	20041F0525	00000 00002 00005 00009 00010 00013 00019 00019 0001D 00020		ENTRY SUBL2 MOVL MOVL CLRL CMPB BLSSU MOVL TSTL BNEQ	1\$ TIME, TIMEAL (TIMEADDR) 1\$ 4(TIMEADDR)	ave R2,R3,R4,R5,R6 SCRIPT DESCRIPT+4 ODR	0379 0452 0453 0455 0456 0459
		OD			00		0000	0G	6E 9F 7E 7E		04 10 16 18	A6800 B 5AE2 AEAAAA		00022 00027 00029	1\$:	RET PUSHL PUSHAB CALLS MOVZWL MOVZWL	TIMEANNO	UMTIM -(SP)	0467 0466 0472 0480 0479 0478 0477
	,	7E 6E			00 7E			•	50 7E	0000(F)	1A 18 064 1E 557 28 20 20 80	01 8F AE CF 40 AE AE AE	37ABC DDC 9FF 9F	00046 0004B 00054 0005D 0005F 00063 00066		MOVZWL MOVZWL MOVZWL EMUL EDIV MOVZWL PUSHAL PUSHAB PUSHAB PUSHAB	#3 TIMBUF+4, -(BUF DESCRIPT DUMMY FORMAT	(SP)	0476
; Routi	ne S	ize:	11	6 by	tes,		100001		9f Base	: \$	CODE	0A \$ + 0	FB 04 048	0006C 00073		CALLS RET	#10, a #sys\$f	· AO	: 0476 : 0483

0484 1 0485 1 END 0486 0 ELUDOM 171 172 173

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IN
VO
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Page

L 13 16-Sep-1984 01:07:07 14-Sep-1984 12:29:37 GETTIM VAX-11 Bliss-32 V4.0-742 Pa DISK\$VMSMASTER:[F11A.3R/]GETTIM.B32;1 V04-000 PSECT SUMMARY Bytes Name Attributes \$CODE\$ 188 NOVEC, NOWRY, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) Library Statistics Symbols ----Pages Processing file Total Percent Loaded Mapped Time \$255\$DUA28:[SYSLIB]LIB.L32;1 3 18619 0 1000 00:01.9 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:GETTIM/OBJ=OBJ\$:GETTIM MSRC\$:GETTIM/UPDATE=(ENH\$:GETTIM) 116 code + 72 data bytes 00:06.4 Size: Run Time: Elapsed Time: Lines/CPU Min: 00:20.4 4527 Lexemes/CPU-Min: 13798 : Memory Used: 80 pages : Compilation Complete

0165 AH-BT13A-SE

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